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Chemistry : an introduction to organic, inorganic and physical chemistry

Housecroft, Catherine E., 1955-; Constable, Edwin C.

2010

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Inorganic chemistry

Housecroft, Catherine E., 1955-; Sharpe, A. G.; Housecroft, Catherine E., 1955-.

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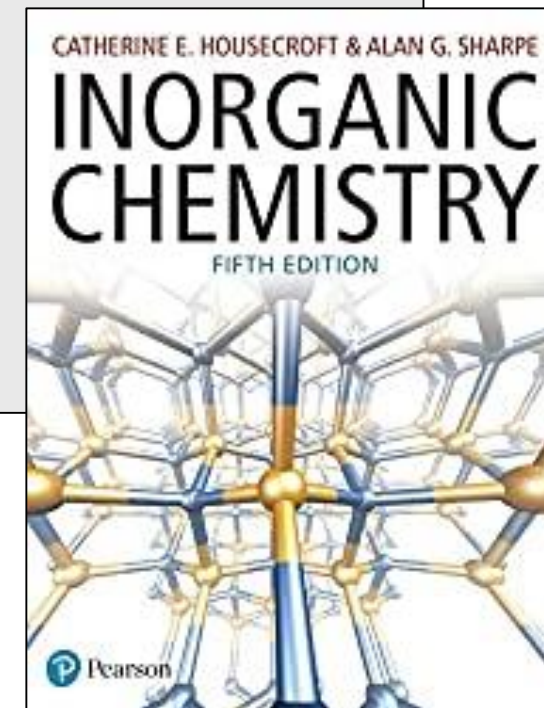
BOOK

Inorganic chemistry : solutions manual

Housecroft, Catherine E., 1955-; Housecroft, Catherine E., 1955-.

2008

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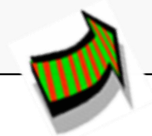
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Organic Chemistry Resources, Textbooks & OERs

[How to Succeed in Organic Chemistry](#) (2020, Elliott, textbook on Library Reserve)

[McGraw-Hill's 500 Organic Chemistry Questions: Ace your College Exams](#) (2013)

[A Q&A Approach to Organic Chemistry](#) (2020, Smith) - questions / textbook

[Practical Synthetic Organic Chemistry: Reactions, Principles, and Techniques](#) (2020, textbook)

[Organic Synthesis](#) (2011, Smith, textbook)

[Modern Organic Synthesis: An Introduction](#) (2017, Zweifel, textbook)

[Introduction to Strategies for Organic Synthesis](#) (2018, Starkey, textbook)

[Organic Chemistry I](#) (OER, Liu)

[Organic Chemistry with a Biological Emphasis](#) (OER, Soderberg, 2012)

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Lots of new quick citation management tools including [Citation Machine](#), [bibme](#), [APA Referencing Generator](#), [EasyBib](#) don't easily or accurately convert for ACS style, but [Citation Machine American Chemical Society](#) is a bit clunky, but works for most requests!

The Purdue Online Writing Lab (OWL) Guides for [APA](#), [Chicago](#) and [MLA](#).

A key citation management tool that provides citations in a variety of styles for books and articles is [ZoteroBib](#). Try it out using ISBNs and DOIs. It does ACS Style which is a great resource not easily found elsewhere.

New to Brock!!! [The ACS Guide to Scholarly Communication](#) which includes constantly updated content on writing, communication, journals, data, editorial and most importantly current ACS scientific style conventions.

ACS Style requires journal title abbreviations - which can be a bit tricky! Consult [CASSI](#) for journal name abbreviations which are essential for citations, interlibrary loan and foreign language journals. Check [Beyond CASSI](#) which is an updated list if necessary. There are several alternate services that translate journal name abbreviations to full names including [All That JAS](#), and Web of Science [Journal Title Abbreviations](#).

- [ACS Style Guide \(Murdoch University\)](#)
- [ACS Citation Style \(Williams College Libraries\)](#)
- [How to Cite in ACS Style \(Laurier, video\)](#)
- [All That JAS: Journal Abbreviation Sources](#)
- [CASSI \(Chemistry Journal Abbreviations\)](#)
- [Zotero](#)

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- [From Research to Manuscript: A Guide to Scientific Writing \(2006\)](#)
- [Good Style: Writing for Science and Technology \(2005\)](#)
- [How to Write a Good Scientific Paper \(SPIE, PDF, 2018\)](#)
- [How to write and Publish a Scientific Paper \(2016\)](#)
- [How to Write a Successful Science Thesis: A Concise Guide for Students \(2006\)](#)
- [Lab Report Writing \(WriteOnline\)](#)
Excellent resource for writing by Ontario universities.
- [Mastering Academic Writing in the Sciences: A Step-by-Step Guide \(2018\)](#)
- [Science Research Writing for Non-native Speakers of English \(2010\)](#)
- [Scientific Papers and Presentations: Navigating Scientific Communication in Today's World \(2012\)](#)
- [Scientific Writing: Thinking in Words \(2011\)](#)
- [The Scientist's Guide to Writing: How to Write More Easily and Effectively Throughout Your Scientific Career \(2016\)](#)
- [A Short Guide to Writing about Chemistry \(2010\)](#)
- [Successful Scientific Writing: A Step-by-Step Guide... \(2014\)](#)
- [Survival Guide to Organic Chemistry \(2017\)](#)
Essential reactions, mechanisms, processes, reaction sequences, and sample exam practice sessions.
- [Write Like a Chemist: A Guide and Resource \(2008\)](#)
A classic text, help writing sections of reports, papers, notes, etc.
- [Writing Scientific Research Articles: Strategy and Steps \(2013\)](#)
- [Writing the Laboratory Notebook \(1985\)](#)

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Searching for Chemistry and related subject area articles can be tricky. Most researchers use [Google Scholar](#) or [Omni](#) and then move on to [Web of Science Core Collection](#), [SciFinder-n](#) and [Reaxys](#) for deeper and/or more comprehensive searches. Keyword, property and chemical reaction or structure searching is essential when reviewing resources.

Consult [CASSI](#) for journal name abbreviations which are essential for citations and use [interlibrary loan](#) for resources not at Brock. Check [Beyond CASSI](#) for historical journal name abbreviations. There are several alternate services that translate journal name abbreviations to full names Web of Science [Journal Title Abbreviations](#), and Brock Library Omni's [Journals](#).

Using [figshare](#) is an excellent way to search for figures, data and information.

A complete list of chemistry, biochemistry and biotechnology databases is available [here](#).

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 6. Follow the Find it! @ Brock links to access available full-text.
- [SciFinder-n](#) 
 - Core chemistry, medicine, health, environmental and scientific journals, patents from international agencies, single and multi-step reactions, predicted and experimental property values, reports and dissertations from 1800s-present.
 - SciFinder-n is a completely different and updated interface to the classic CAS SciFinder database, with improved search algorithm and added features



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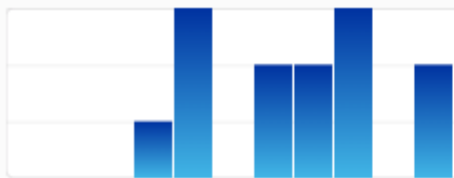
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Molecular correlations of dissolved organic matter with inorganic mercury and methylmercury in Canadian boreal streams

By: **Mangal, V.**; Lam, W. Y.; Huang, H.; Emilson, E. J. S.; Mackereth, R. W.; Mitchell, C. P. J. 

Biogeochemistry (2022), 160(1), 127-144 | Language: English, Database: Cplus

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Mercury methylation and methylmercury demethylation in boreal lake sediment with legacy sulphate pollution

By: Huang, Haiyong; **Mangal, Vaughn**; Rennie, Michael D.; Tong, Huan; Simpson, Myrna J.; Mitchell, Carl P. J.

Environmental Science: Processes & Impacts (2022), 24(6), 932-944 | Language: English, Database: Cplus and MEDLINE

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Identifying *Euglena Gracilis* Metabolic and Transcriptomic Adaptations in Response to Mercury Stress

[Mangal, Vaughn](#); [Donaldson, Michael E.](#); [Lewis, Ainsely](#); [Saville, Barry J.](#); [Guéguen, Céline](#) [Frontiers in environmental science, 2022, vol. 10, art. no. 836732]

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Mercury methylation and methylmercury demethylation in boreal lake sediment with legacy sulphate pollution

[Huang, Haiyong](#); [Mangal, Vaughn](#); [Rennie, Michael D.](#); [Tong, Huan](#); [Simpson, Myrna J.](#); [Mitchell, Carl P. J.](#) [Environmental science. Processes and impacts, 2022, vol. 24, # 6, p. 932 - 944]

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An estimation of sulfur concentrations released by three algae (*Chlorella vulgaris*, *Chlamydomonas reinhardtii*, *Scenedesmus obliquus*) in response to variable growth photoperiods

[Mangal, Vaughn](#); [Phung, Ta](#); [Guéguen, Céline](#) [Environmental Science and Pollution Research, 2020, vol. 27, # 11, p. 12491 - 12498]

Abstract > Index Terms > Substances 3 > Full Text >

Cited 3 times

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Aerobic and Anaerobic Bacterial Mercury Uptake is Driven by Algal Organic Matter Composition and Molecular Weight

[Mangal, Vaughn](#); [Stenzler, Benjamin R.](#); [Poulain, Alexandre J.](#); [Guéguen, Celine](#) [Environmental Science and Technology, 2019, vol. 53, # 1, p. 157 - 165]

Abstract > Index Terms > Substances 4 > Full Text >

Cited 40 times

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Molecular characterization of mercury binding ligands released by freshwater algae grown at three photoperiods

[Mangal, Vaughn](#); [Phung, Ta](#); [Nguyen, Thien Q.](#); [Guéguen, Celine](#) [Frontiers in environmental science, 2019, vol. 6, # JAN, art. no. 155]

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Source: Crossref

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^aJames A. Gibson Library, Brock University, St. Catharines, Ontario, Canada; ^bA.D. Allen Chemistry Library, University of Toronto, Toronto, Ontario, Canada; ^cEngineering & Science Library, Queen's University, Kingston, Ontario, Canada; ^dDavis Centre Library, University of Waterloo, Waterloo, Ontario, Canada

ABSTRACT

Chemists in academic institutions utilize a variety of resources and strategies to remain current and to track scholarly information, patents, and news. To explore how chemists in academic institutions remain current, librarians at four Canadian university institutions surveyed 231 and interviewed 14 chemistry faculty, staff, and graduate students on their information seeking behaviors and attitudes. According to survey results, a minority of chemists (13.9 percent) acknowledged that they were successfully keeping up to date, while 50.6 percent indicated that they were somewhat successful. However, a significant number of chemists (35.5 percent) indicated that they were unsuccessful and could do better in remaining current with information. Investigators analyzing focus group data identified three emergent themes related to remaining current: (1) there is “too much information – and not enough time.” No single information seeking strategy works; (2) “patents are important – but messy.” Chemists find themselves largely suspicious about the value and credibility of patents; and (3) chemists “could do better” in keeping up to date with new and emerging technologies. Chemists continue to be open to new tools and resources yet readily acknowledge that they are too often not sure which information seeking behaviors, resources, or strategies work best. This study helps to shed light on opportunities to identify and meet chemists’ evolving information needs.

KEYWORDS

Academic (university) libraries; chemists; faculty; graduate students; information needs; information seeking behaviors; information sources

Introduction

Recent advances in technology have enabled chemists to efficiently acquire and evaluate chemistry information in a timely and sustainable manner. Even so, many chemists continue to struggle to find the right balance of strategies and resources to stay on top of the literature. These concerns raise questions about chemists’ information seeking behaviors, attitudes, and choices while attempting to remain current in their areas of expertise. This paper explores academic chemists’ practices and feelings when seeking, evaluating, and managing

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